

## Contents

### Regular papers

- Oligosaccharides related to xyloglucan: synthesis and X-ray crystal structure of methyl 2-*O*-( $\alpha$ -L-fucopyranosyl)- $\beta$ -D-galactopyranoside  
D.K. Watt, D.J. Brasch, D.S. Larsen, L.D. Melton and J. Simpson (Dunedin, New Zealand) . . . . . 1
- Synthesis and antiviral activity of 3'-*C*-branched-3'-deoxy analogues of adenosine  
I.A. Mikhailopulo, N.E. Poopko, T.M. Tsvetkova, A.P. Marochkin (Minsk, Byelorussia), J. Balzarini and E. De Clercq (Leuven, Belgium) . . . . . 17
- Regioselectivity of  $\beta$ -D-galactosyl-disaccharide formation using the  $\beta$ -D-galactosidase from *Bacillus circulans*  
T. Usui, S. Morimoto, Y. Hayakawa, M. Kawaguchi, T. Murata, Y. Matahira (Shizuoka, Japan) and Y. Nishida (Sendai, Japan) . . . . . 29
- The formation of novel saccharinic acids, 2-*C*-(2-hydroxyethyl)tetronic acids, by alkaline degradation of leucrose  
K. Niemelä (Espoo, Finland) . . . . . 41
- 1,3-Dicarbonyl sugar derivatives from sugar nitro-olefins  
J.-C. Bernal-Montes, P. Borrachero-Moya, F. Cabrera-Escribano, M. Gómez-Guillén, F. Madrid-Díaz and J.-M. Moreno-Martínez (Seville, Spain) . . . . . 49
- Structural studies of the acidic exopolysaccharide produced by a mucoid strain of *Burkholderia cepacia*, isolated from cystic fibrosis  
S. Cérantola, N. Marty and H. Montrozier (Toulouse, France) . . . . . 59
- Structural studies of the exocellular polysaccharide from *Sphingomonas paucimobilis* strain I-886  
C. Falk, P.-E. Jansson (Huddinge, Sweden), M. Rinaudo, A. Heyraud (Grenoble, France), G. Widmalm (Stockholm, Sweden) and P. Hebbat (Vandoeuvre les Nancy, France) . . . . . 69
- Structural analysis of carrageenans from Burmese and Thai samples of *Catenella nipae* Zanardini  
R. Falshaw, R.H. Furneaux, H. Wong (Lower Hutt, New Zealand), M.-L. Liao, A. Bacic (Melbourne, Australia) and S. Chandrakhang (Bangkok, Thailand) . . . . . 81
- The structures of arabinoxyloglucans produced by solanaceous plants  
W.S. York, V.S. Kumar Kolli, R. Orlando, P. Albersheim and A.G. Darvill (Athens, GA, USA) . . . . . 99
- Structural studies of the exopolysaccharide produced by *Lactobacillus paracasei* 34-1  
G.W. Robijn, H.L.J. Wienk (Utrecht, The Netherlands), D.J.C. Van den Berg, H. Haas (Vlaardingen, The Netherlands), J.P. Kamerling and J.F.G. Vliegenthart (Utrecht, The Netherlands) . . . . . 129

Substrate specificity of native dTDP-D-glucose-4,6-dehydratase: chemo-enzymatic syntheses of artificial and naturally occurring deoxy sugars A. Naundorf (Hamburg, Germany) and W. Klaffke (Hamburg, Germany; Vlaardingen, The Netherlands) . . . . .	141
<i>Notes</i>	
Crystal and molecular structure of 2,4,6-tri- <i>O</i> -benzoyl-3- <i>O</i> -benzyl- $\beta$ -L-idopyranosyl fluoride R.W. Tjerkstra, M.L. Verdonk and J. Kroon (Utrecht, The Netherlands) . . . . .	151
Synthesis of <i>O</i> - and <i>S</i> -glucosides using glucosyl halides and zinc salts K.N. Gurudutt, L.J.M. Rao, S. Rao and S. Srinivas (Mysore, India) . . . . .	159
Carboxyl-reduced hyaluronan: preparation and enzymatic assay G. Liut (Trieste, Italy) and K. Cui (Beijing, People's Republic of China; Trieste, Italy). . . . .	167
<i>Preliminary Communication</i>	
Synthesis of sialyl Le <sup>x</sup> ganglioside analogues sulfated at C-6 of either the galactose or <i>N</i> -acetylglucosamine residues, and at both of the galactose and <i>N</i> -acetylglucosamine residues: probes for clarifying the real carbohydrate ligand of L-selectin S. Komba, H. Ishida, M. Kiso and A. Hasegawa (Gifu, Japan). . . . .	C1
<i>Announcement</i> . . . . .	C9
<i>Author index</i> . . . . .	C11
<i>Subject index</i> . . . . .	C13
<i>Contents</i> . . . . .	C17
<i>Information for authors</i> . . . . .	C19